WHAT IS CLAIMED IS:

	1	1. A data network for communicating data between a sender unit and a
	2	receiver unit, comprising:
	3	a core network including relay elements intercoupled by data links;
	4	a gateway element coupled to the core network and to the sender unit, the
	5	receiver unit being coupled to the core network, the gateway element having at least one
	6	information table identifying at least one route from the gateway element through the core
	7	network to the receiver unit, including the status of the route.
		2. A method of management of data communication through a core
	1	,
	2	network between a sender unit and a receiver unit that includes the steps of:
	3	defining at least one communicative route through the core network between
Acres 64	4	the sender and receiver units that includes a plurality of network links that each have a
122	5	predetermined communication resource;
of the last test of the	6	coupling the sender and receiver units to the core network with a sending and
	7	receiving gateway element, respectively;
L.	8	allocating to the sending gateway element a first portion of the predetermined
E .	9	communication resource of at least certain of the network links forming a communicative
	0	route between the sending and receiving gateway elements, and maintaining at the sending
T1 T1	1	gateway element information indicative of the allocated predetermined communication
[]1	2	resource;
j= 1	3	receiving at the sending gateway element a request from the sender unit for a
1	4	data transfer across the route, the request including a specification of requested
1	5	communication resource;
1	6	the sending gateway checking the information to grant the request if the
1	7	communicating capacity of the communicative route is available.
	1	3. The method of claim 2, including allocating a second portion of the
	2	predetermined communication resource of the certain of the network links.
	1	4. The method of claim 3, wherein the step of checking the information
	2	includes reconfiguring the predetermined communicative resource of the certain of the
	3	network links re-allocate at least a portion of the communicative resource allocated to the
	4	receiving gateway element to the sending gateway element.

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re-assigned to the first portion.

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1	11. The method of claim 10, wherein the step of re-assigning includes
2	increasing the information indicative of the first portion by the part of the second portion re-
3	assigned to the first portion.
1	12. A system for providing a QoS communication route from a first
2	communicting entity to a second communicating entity through a core network that includes
3	a plurality of network links, each network link having a predetermined communication
4	resource, the system including;
5	a sending gateway element and a receiving gateway element respectively
6	coupling the first and second communicating entities to the core network;
7	ass the sending gateway element a first portion of the predetermined
8	communication resource of at least certain of the network links forming a communicative
5 9	route between the sending and receiving gateway elements, and maintaining at the sending
10	gateway element information indicative of the allocated predetermined communication
11	resource;
11 12	receiving at the sending gateway element a request from the sender unit for a
13	data transfer across the route, the request including a specification of requested
-	communication resource;
14 15	the sending gateway checking the information to grant the request if the
16	communicating capacity of the communicative route is available.